

ILLEGIB

Approved For Release 2005/06/08 : CIA-RDP78T05439A000300390103-6

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IB - 100/64  
14 July 1964

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MEMORANDUM FOR: Chief, Programs/Free World Division, ORR

ATTENTION :

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, CIA/PID (NPIC)

SUBJECT : Camp Huckstep Military Factory No. 81

REFERENCES : (1) Requirement No. ORR C-RR4-81,116 (Revised)  
(2) CIA/PID Project No. C 475-64

1. In response to the above referenced requirement, a chronological photo-study was made of the munitions factory at Camp Huckstep, Egypt. This plant is located at 30°08'N - 31°27'E approximately 10 statute miles NE of the center of Cairo. It is road served only and is adjacent to Camp Huckstep Military Camp.

2. The study covers a period extending from [redacted]  
All changes in plant facilities are illustrated on overlays attached to CIA/PID/IB-P-997/64. This photo was used because of its scale and completeness. Also enclosed are photos from various missions flown between [redacted]

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3. According to reports, the factory is engaged in the manufacture of 75mm and 155mm ammunition and also produces mines and explosives. The results of the photo-study tend to confirm these reports. As can be seen on the photography, a large area of the factory complex, approximately one third of the total, is devoted to machine shop operations (Annotation No. 15, on the overlay). Many of the shop buildings are capable of having light handling equipment which would be necessary in the fabrication of 155mm shells, and heavy mines. A comparison of the photography shows that considerable expansion of these machine shop facilities has taken place since 1956. The exact amount is displayed on the overlays attached to photo CIA/PID/IB-P-997/64. It is likely that the shops perform only final machining and assembly work since there does not appear to be an extensive heat treating capability with the complex. This would indicate that heat treating and tempering operations are carried out elsewhere. Furthermore, no foundry capabilities were observed at this plant. Within the limits of the shop area there are large sections of open storage. The scale of available photography did not permit identification of the stored material.

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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Reviewed by NGA.

4. The heavily revetted sections of the factory complex are concerned with explosive manufacture, pellet and block pressing, projectile filling, and storage of explosives, both semi-finished and finished. The most significant addition to this section of the plant took place between 1956 and 1958. This is the probable nitration facility located on the west side of zone 2 on the index overlay (No. 4 on the key). There are four buildings, three of them heavily revetted, connected by a pipeline. To the south, there is located a revetted tank which possibly contains toluene. Those features are typical of a trinitrotoluene manufacturing facility. The manufacture of this explosive requires a nitric acid storage and mixing site which probably is the structure labeled No. 8 on the overlay. The acid, a mixture of nitric and sulphuric, is piped to a series of three buildings, which is usually the case, where the toluene is nitrated into mono-, di-, and finally trinitrotoluene. The probable nitration buildings in this case are No. 4 on the overlay. Generally, steam lines are present as well as acid lines, however, steam lines would probably be buried if the steam generation site is not close to the point of use. With soil and wind conditions which are prevalent in this part of the world, ground scars for buried pipelines would soon disappear. The TNT manufactured here is probable used as a bursting charge in the products assembled at the plant. The larger revetted buildings (Annotation 17 on the overlay) in the northwest section of the compound are probably concerned with filling of projectile, mine and bomb casings. The smaller revetted buildings, in the same general area, are typical of initiator storage structures, where small quantities of either lead azide or fulminate of mercury are stored until needed.

5. Measurements contained in this memorandum were prepared by TID/NPIC. The results of these measurements are shown in both tabular and graphical form. Three line drawings, one of each zone, are enclosed showing building location, number and dimension. In addition, a table of areas of each building, keyed to the line drawings, is enclosed. A comparison of roof area figures shows that a 90% expansion took place between 1956 and 1960. The plant contained [redacted] roofcover in 1956 and has been increased to [redacted] by 1960. There has been negligible expansion since 1961.

25X  
 25X

6. In summation, it is the opinion of the analyst that the following conclusions are valid.

- a. The plant manufactures its own burster charges in the form of TNT.
- b. The plant loads casings of projectiles, bombs and mines, using initiators brought in from another site.
- c. The plant performs final machining steps on casings manufactured elsewhere.
- d. The plant also serves as a storage site for its products.

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## 7. References

Map

WAC 447

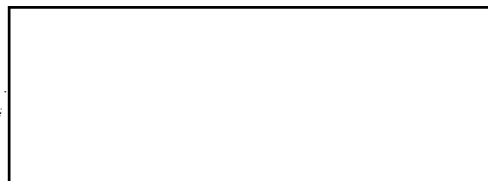
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8. The analyst assigned to this project was [redacted] who may be contacted on extension [redacted] should any questions arise. This requirement is considered complete with the issuance of this memo.

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## Enclosures:

- 1 - Annotated Map  
(CIA/PID/IB-P-994/64)
- 5 - Annotated Photo Enlargements  
(CIA/PID/IB-P-995,996,998 thru 1000/64)
- 1 - Annotated Photo Enlargement w/four Overlays  
(CIA/PID/IB-P-997/64)
- 3 - Line Drawings  
(CIA/PID/IB-P-1015 thru 1017/64)

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ZONE NO. 1

BUILDING NUMBER

DIMENSION

AREA IN SQUARE FEET

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
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36  
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38  
39  
40  
41  
42  
43  
44  
45

[Redacted]

60 x 250 15,000  
65 x 20 1,300  
710 x 45 31,950

[Redacted]

60 x 125 7,500

[Redacted]

25X1

90 x 35 3,150

[Redacted]

110 x 110 12,100

25X1

25X1

[Redacted]

20 x 25 500

50 x 70 3,500

25 x 60 1,500

40 x 55 2,200

60 x 20 1,200

(10' in Ht.)

25X1

[Redacted]

60 x 20 1,200

25X1

25X1

[Redacted]

35 x 85 2,975

[Redacted]

25X1

25X1

40 x 40 1,600

[Redacted]

55 x 15 825

75 x 25 1,875

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25X1

[Redacted]

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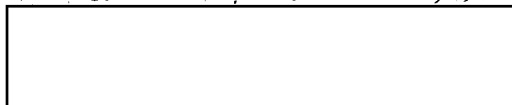
## ZONE NO. 1 CONTINUED

BUILDING NUMBERDIMENSIONAREA IN SQUARE FEET46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
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76  
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78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
9250 x 35 1,750  
40 x 40 1,600

30 x 70 2,100



70 x 35 2,450

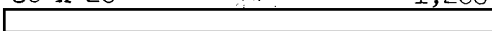


45 x 20 900

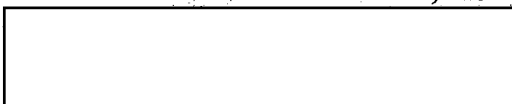
45 x 20 900

60 x 35 2,100

60 x 20 1,200



60 x 20 1,200

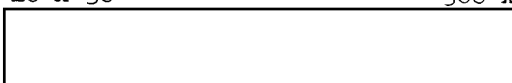


20 x 45 900

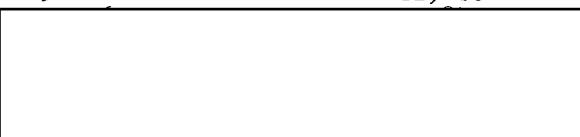
25 x 10 250



10 x 30 300 x 2



285 x 40 11,400



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ZONE NO. 2

BUILDING NUMBER

DIMENSIONS

AREA IN SQUARE FEET

93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111

65 x 75

4,875

90 x 60

5,400

75 x 75  
20 x 10

5,600  
200

35 x 50  
20 x 20

400

25 x 40  
75 x 75  
25 x 40  
15 x 15

1,000  
5,625  
1,000  
225

20 x 45

900

50 x 45  
45 x 20

2,250  
900

30 x 30

900

135

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LOCATED BY GALT BUREAU  
WILLIAM BARTON # 4



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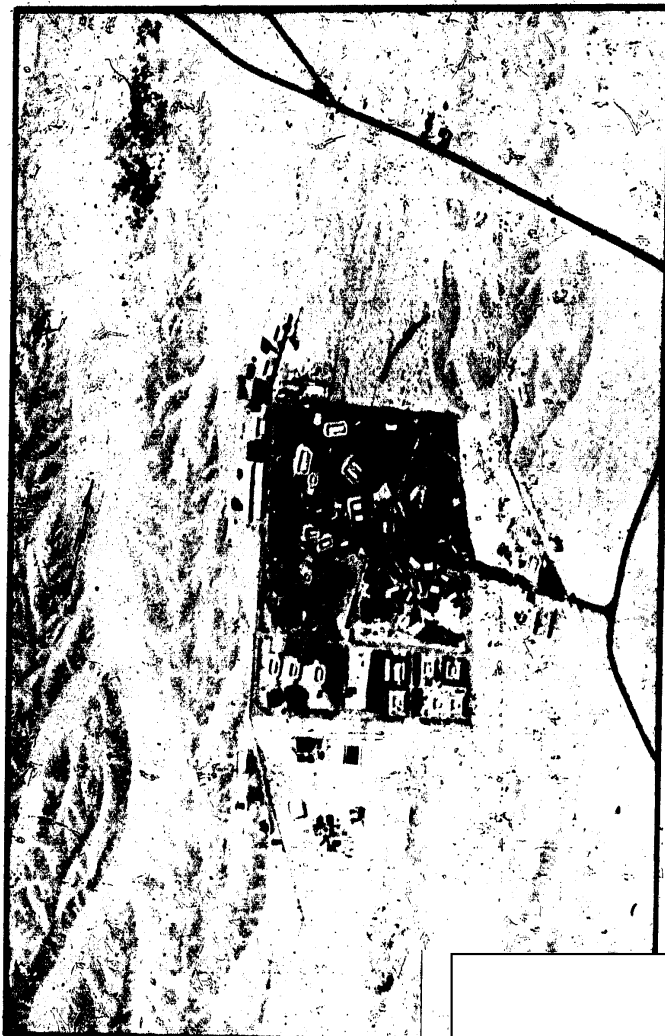
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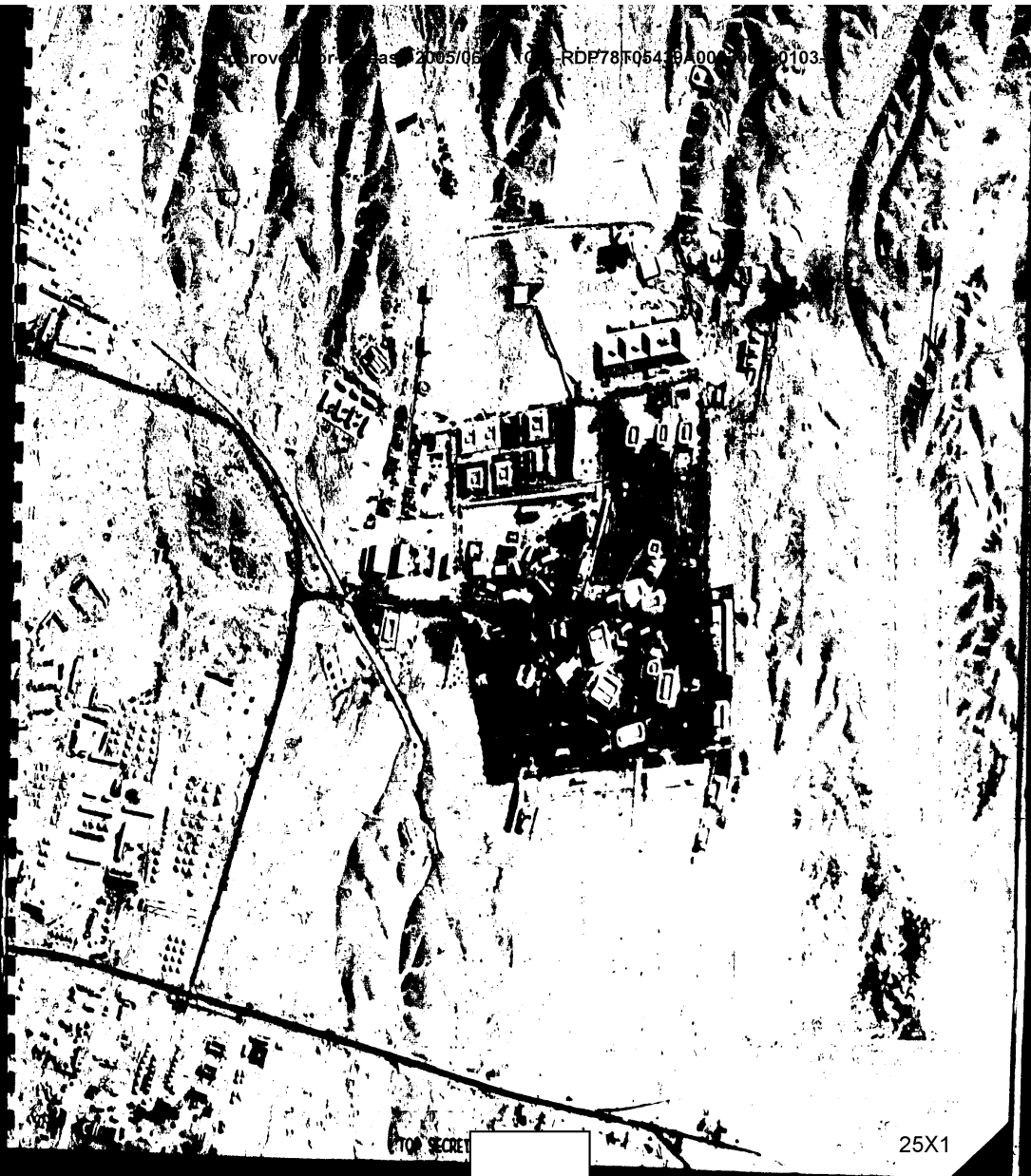
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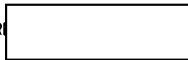
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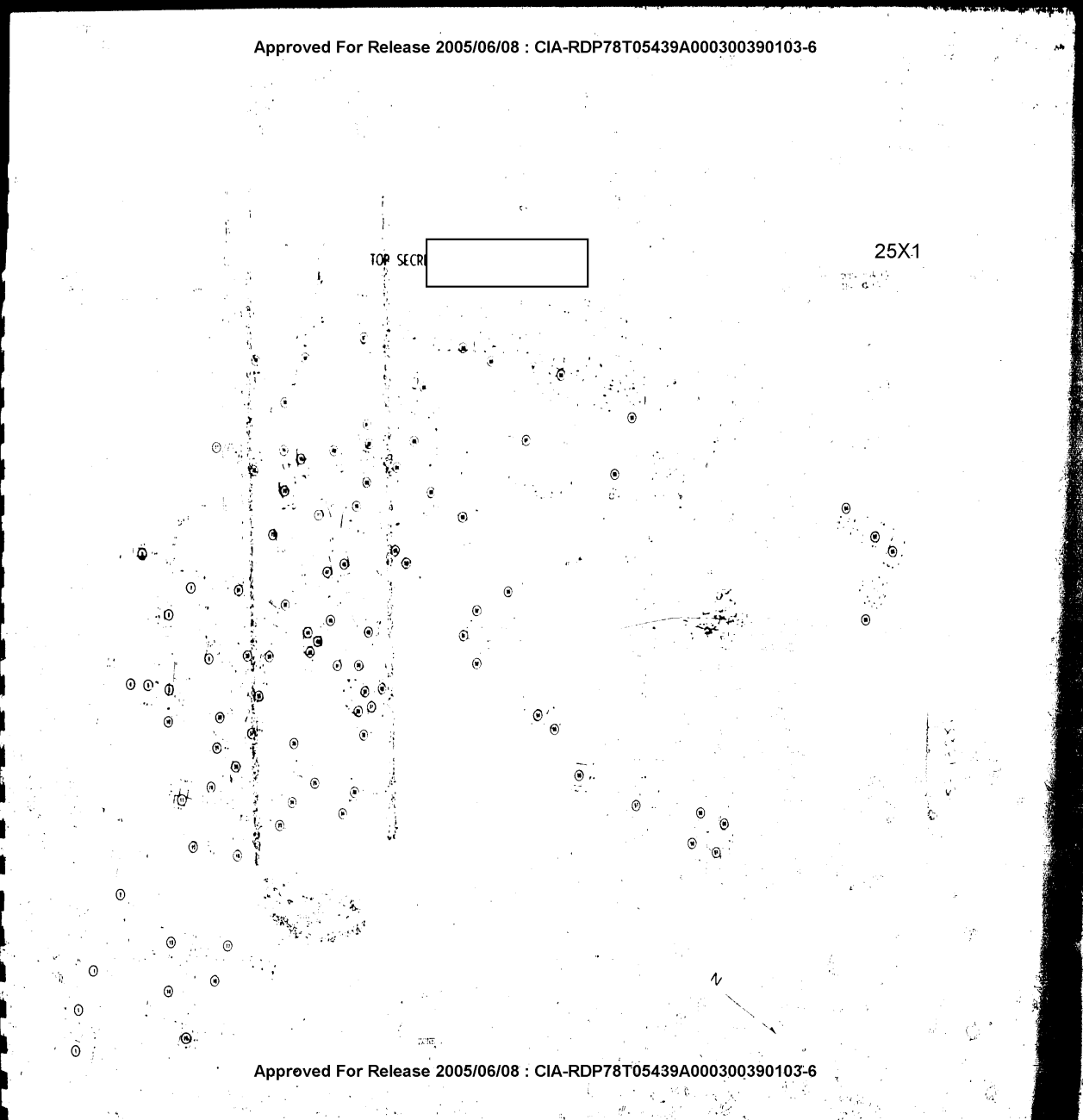
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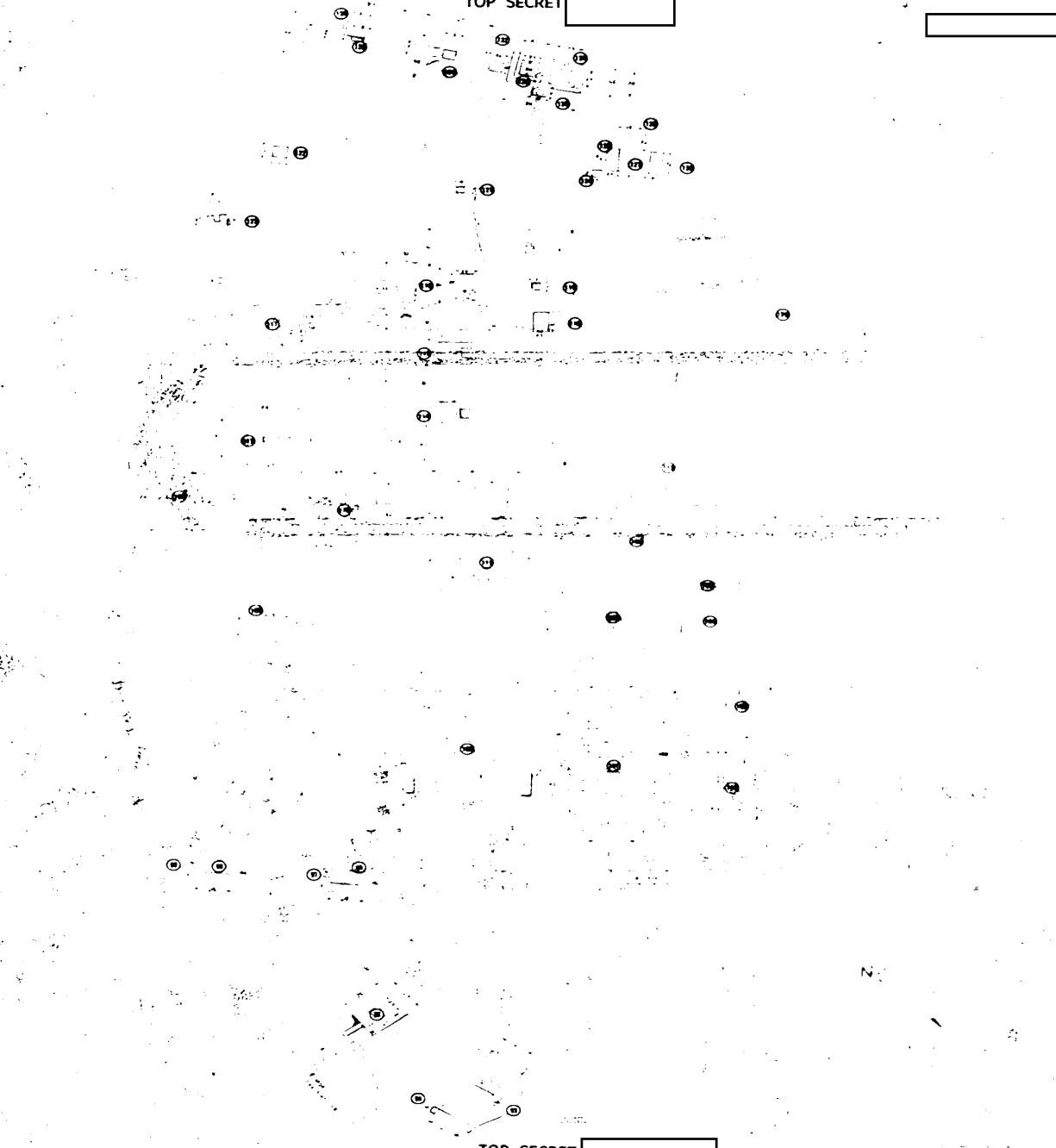
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2000

1050

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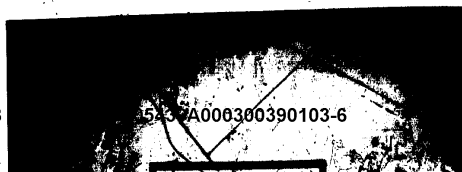
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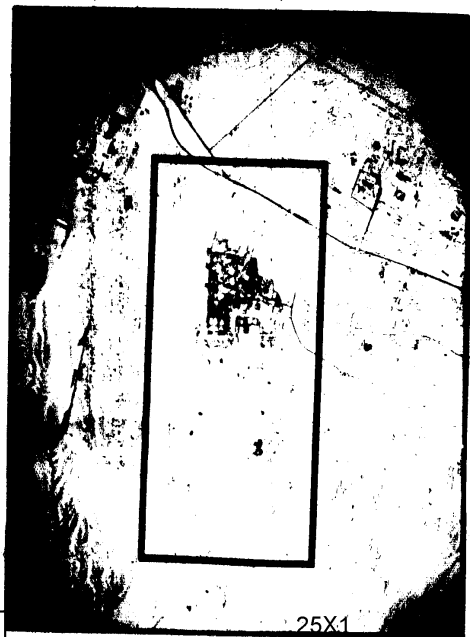
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